

CLAIMS

1. A method for delivering messages between a terminal in a telecommunications system utilizing wireless data transmission and a second party irrespective of the content type of the messages,

5 **characterized** by the steps of
delivering messages through the same message service centre irrespective of the content type of the message, and
employing the same protocol for the messages between the terminal and the message service centre.

10 2. A method as claimed in claim 1, **characterized** in that
the message content indicates the presentation of the message contents which may include text, speech, images, video images or combinations thereof, and

15 messages of at least two different content types are delivered through the message service centre.

20 3. A method as claimed in claim 1 or 2, **characterized** by
determining at least one first condition to the message service centre,

25 checking from the message to be delivered to the terminal whether it meets the first condition, and

delivering the message directly to the terminal, if it meets the first condition, and

informing the terminal about the message, if it does not meet the first condition, and delivering the message as a response to a message request concerning the message.

30 4. A method as claimed in claim 3, **characterized** in that the first condition determines at least one of the following: the content type or types of a message to be sent directly, the maximum size of the message to be sent directly.

35 5. A method as claimed in claim 4, **characterized** by receiving a value associated with the first condition from the terminal user in the message service centre, and by

updating said value with a received value.

6. A method as claimed in ^{claim 3} ~~claims 3, 4 or 5~~, **characterized**
by receiving a terminal property as a value associated with the first condition in the message service centre, and by

updating said value with a received value.

a 7 A method as claimed in ^{claim 3} ~~claims 3, 4, 5 and 6~~, characterized by

5 adding a recipient identifier to the message informing about the message to be sent to the terminal, the identifier enabling to identify the recipient of the message to be received, and

delivering the message only if the message request includes the recipient identifier associated with the message.

a 8. A method as claimed in ^{claim 1} ~~any one of the preceding claims~~, characterized by

10 delivering messages from the message service centre to the terminal using at least two different delivery routes,

determining at least a second condition for the message service centre, and

15 selecting the delivery route for the message on the basis of the second condition.

9. A method as claimed in ^{claim 1} ~~claim in any one of the preceding claims~~, characterized by

20 transferring the message between the terminal and the message service centre in packets of a particular size,

checking before transferring the message whether it fits into one packet, and

if so, transferring the message in one packet,

if the message does not fit into one packet,

25 - dividing the message into segments so that one segment fits into one packet,

- transferring the message in consecutive segments, and

- composing the message of the received segments.

30 10. A wireless telecommunications system comprising at least one terminal which is able to receive messages of at least a first content type and a second content type, the content type indicating the presentation of the message contents,

characterized in that

35 the system also comprises a message service centre (MMSC) for transmitting messages of at least the first content type and the second content type between a terminal and a second party, the message service centre de-

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livering said messages to the terminal as messages according to a first protocol.

11. A system as claimed in claim 10, **characterized** in that the message service centre (MMSC) is arranged to check before
5 delivering the message to the terminal (MS), whether the message meets at least one predetermined first condition, and in response to the result of the check to deliver the message directly to the terminal or to inform the mobile station about the message and to deliver the message in response to a message request concerning the message, and
10 the terminal (MS) is arranged to receive said indication about the message, to inform the terminal user about the indication and to send the message request concerning the message to the message service centre (MMSC) as a response to the instructions received from the user.

12. A system as claimed in claim 11, **characterized** in that
15 the first condition determines at least one of the following: the content type or types of a message to be sent directly, the maximum size of the message to be sent directly.

13. A system as claimed in claim 12, **characterized** in that the terminal (MS) is arranged to inform the message service centre
20 (MMSC) about message content codings that it supports, and the message service centre (MMSC) is arranged to check the coding of the message to be delivered to the terminal (MS), to compare it to the codings supported by the terminal, and if the terminal does not support the message coding, to change the message coding to a coding supported by the
25 terminal.

claim 10
14. A system as claimed in ~~claims 10-13~~, **characterized** by
a transferring the messages in the system between the terminal (MS) and the message service centre (MMSC) in packets of a particular size, arranging the message service centre (MMSC) to check before a
30 message is delivered to the terminal, whether the message fits into one packet, and if the message does not fit into one packet, to divide the message into segments and to deliver the message to the terminal in consecutive segments.

15. A system as claimed in claim 14, **characterized** in that
35 the message service centre (MMSC) is arranged to pack an unpacked message with a packaging method supported by the terminal before

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the message service centre checks whether the message fits into one packet.

16. A message service centre (MMSC) connected to a wireless telecommunications system, **characterized** in that

the message service centre comprises

5 interface means (L1, L2) for receiving and forwarding messages of at least two different content types, the content types indicating the presentation of the message contents, and

application means (AP) for delivering said messages addressed to the terminal in the telecommunications system and for receiving the messages received from the terminal using the same protocol.

17. A message service centre (MMSC) as claimed in claim 16, **characterized** in that the application means (AP) are arranged to check before delivering the message to the terminal (MS), whether the message meets at least one predetermined first condition, and in response to the result of the check to deliver the message directly to the terminal or to inform the terminal about the message and to deliver the message in response to a message request concerning the message.

18. A message service centre (MMSC) as claimed in claim 16 or 17, **characterized** in that the application means (AP) are arranged

20 to check before delivering the message to the terminal, whether the message fits into one packet, and if the message does not fit into one packet, to divide the message into segments and to deliver the message to the terminal in consecutive segments, and

to receive the message from the terminal in consecutive segments and to deliver the segments to a second terminal of the system without composing a message thereof.

19. A message service centre (MMSC) connected to a wireless telecommunications system, **characterized** in that

the message service centre comprises

30 interface means (L1, L2) for receiving messages of at least two different content types and for forwarding the messages to a terminal in the telecommunications system, the content types indicating the presentation of the message contents, and

application means (AP) for selecting a delivery route for each message on the basis of a predetermined condition or predetermined conditions.

20. A message service centre (MMSC) connected to a wireless

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telecommunications system, **characterized** in that

the message service centre comprises

interface means (L1, L2) for receiving messages of at least two different content types and for forwarding to a terminal in a telecommunications system, the content types indicating the presentation of the message contents, and

application means (AP) for selecting the manner of delivery of said messages by checking whether the message meets at least one predetermined condition, and in response to the result of the check to deliver the message directly to the terminal or to inform the terminal about the message and to deliver the message to the terminal as a response to a message request concerning the message.

21. A mobile station comprising a user interface (UI) through which the mobile station user can receive messages of at least a first content type and a second content type, the content type indicating the presentation of the message contents

characterized in that the mobile station comprises a controller (CP) for receiving messages of at least the first content type and the second content type using the same protocol.

22. A mobile station as claimed in claim 21, **characterized** in that the controller (CP) is arranged to receive an indication concerning a message waiting for delivery, to transmit the indication to the user through the user interface and to send said message as a response to the delivery request through the user interface to the received user command.

23. A mobile station comprising a user interface (UI) through which the mobile station user can send messages of at least a first content type and a second content type, the content type indicating the presentation of the message contents,

characterized in that the mobile station comprises a controller (CP) for sending messages of at least the first content type and the second content type using the same protocol to a second party through the service centre in the same mobile communications system.

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